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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
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Baker Botts LLP			EXAMINER		
2001 Ross Avenue Dallas, TX 75201-2980			MILLS, DONALD L		
			ART UNIT	PAPER NUMBER	
			2662	13	
			DATE MAILED: 09/29/2003	,	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)			
		09/588,63	2	MO ET AL.			
Office Action Summary		Examiner	<del></del>	Art Unit			
		Donald L N		2662			
Period f	The MAILING DATE of this communication or Reply	on appears on the	cover sheet with the c	orrespondence address			
THE - Exte after - If the - If NO - Failt - Any	HORTENED STATUTORY PERIOD FOR IT MAILING DATE OF THIS COMMUNICAT ensions of time may be available under the provisions of 37 or SIX (6) MONTHS from the mailing date of this communicate period for reply specified above is less than thirty (30) days to period for reply is specified above, the maximum statutory ure to reply within the set or extended period for reply will, by reply received by the Office later than three months after the later than the provided by the Office later than three months after the later than the patent term adjustment. See 37 CFR 1.704(b).	FION. CFR 1.136(a). In no evention. s, a reply within the statury period will apply and will by statute, cause the appli	nt, however, may a reply be tin tory minimum of thirty (30) day I expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed o	on <u>06 June 2000</u> .					
2a)□	This action is <b>FINAL</b> . 2b)	★ This action is	non-final.				
3)□ Disposit	Since this application is in condition for closed in accordance with the practice to tion of Claims						
•	Claim(s) 1-35 is/are pending in the appli	lication.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	· - '						
6)⊠							
7)⊠							
8)□	Claim(s) are subject to restriction	and/or election re	equirement.				
Applicat	tion Papers						
•	The specification is objected to by the Ex		_				
10)⊠	The drawing(s) filed on <u>06 June 2000</u> is/a	are: a)□ accepted	or b)⊠ objected to by t	the Examiner.			
	Applicant may not request that any objectio						
11)[	The proposed drawing correction filed on			oved by the Examiner.			
40)	If approved, corrected drawings are required.	, ,	tice action.				
,—	The oath or declaration is objected to by t	tne Examiner.					
-	under 35 U.S.C. §§ 119 and 120			\			
	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)	) All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
*	<ol> <li>Copies of the certified copies of the application from the Internation See the attached detailed Office action for</li> </ol>	nal Bureau (PCT	Rule 17.2(a)).	-			
	Acknowledgment is made of a claim for do		•				
	a)  The translation of the foreign langua  Acknowledgment is made of a claim for de						
Attachme	-		<b>55</b> - 1				
2) 🔲 Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-9 rmation Disclosure Statement(s) (PTO-1449) Paper I			y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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#### **DETAILED ACTION**

### **Drawings**

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference signs not mentioned in the description: 52, 56 (Figure 1;) 310e-n, 310q, 312a-q (Figure 4;) 226a, 228a (Figure 6A;) 228b, and 228n (Figure 6B.)
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference signs mentioned in the description: "220a" and "220n" (Page 22, line 6, and all subsequent references to 220a and 220n regarding Figure 6A;) and "222a" and "222b" (Page 24, line 11 and 19, and all subsequent reference to 222a and 222b regarding figures 6B-D.)
- 3. The drawings are objected to because:

Referring to Figure 5, "210a" should be corrected to "220a."

Referring to Figure 6A, "200A" should be corrected to "200a;" and "229" should be corrected to "229a."

Referring to Figure 6B, "200B" should be corrected to "200b."

Referring to Figure 6C, "200C" should be corrected to "200c."

Referring to Figure 6D, "200D" should be corrected to "200d."

Referring to Figure 6E, "200E" should be corrected to "200e." A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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### Specification

4. The disclosure is objected to because of the following informalities:

Page 1, line 5, "Internaet" should be corrected to "Internet."

Page 15, line 5, "payload" should be corrected to "area;" and line 14, "(Qos)" should be changed to "(QoS)."

Page 21, line 9, "224n" should be corrected to "224;" and line 16, "30" should be corrected to "230."

Page 25, line 26, "224a" should be corrected to "220a;" and line 27, "224b" should be corrected to "220b."

Page 26, line 29, "sub-transport label 224n" should be corrected to "label value 224n."

Page 27, line 6, "224a" should be corrected to "220a;" and line 7, "224n" should be corrected to "220n."

Page 30, line 31, "332" should be corrected to "322." Appropriate correction is required.

## Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1, 2, 5-14, 19-22, 27-30, and 35 are rejected under 35 U.S.C. 102(e) as being anticipated by Isoyama (US 6,169,739 B1).

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Regarding claims 1, 2, 6, and 12, Isoyama discloses a system, which comprises:

Receiving connectionless and connection oriented signals from a plurality of source peripheral network elements (Referring to Figure 2, the VLAN servers, 12a and 12b, inherently receives both connectionless and connection oriented traffic since they are connected to VLAN clients 11a and 11b. See column 2, lines 60-62.)

Determining a signaling type associated with each signal, the signaling type comprising connectionless signaling or connection oriented signaling/The signaling type further comprises a combination of connectionless and connection oriented signaling (Claim 2 and 12) (Referring to Figure 2, each VLAN client, 11a and 11b, determines whether the packet has a connectionless traffic or connection oriented traffic. See column 2, lines 60-62.)

Appending a transport label to each signal, each transport label comprising an indication of the signal's signaling type (Referring to Figure 2, as a layer-3 protocol, the network employs Ipv6 protocol where each packet contains the identity of the upper layer application.

See column 2, lines 57-60.)

Communicating the signals and appended transport labels toward destination peripheral network elements according to signaling procedures associated with each signal's signaling type/At least one signal comprises a connectionless signal and wherein the label value field of that signal's transport label comprises a node identification operable to identify a network element through which the at least one signal will be routed (Claim 6) (Referring to Figures 1 and 2, if the packet has connectionless traffic it is forwarded as a datagram to the server 12a over a path 14a. See column 3, lines 7-9.)

Regarding claims 5, 20 and 28, Isoyama discloses a signal format, which comprises:

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A format field operable to identify the signal's signaling type (Claims 5, 20, and 28) (Referring to Figure 2, the layer-3 header the IPv6 packet contains a priority field for establishing identity of the application. See column 2, lines 58-60.)

A label value field containing information useful in processing the associated signal according to its signaling type (Claims 5, 20, and 28) (Referring to Figure 2, the priority field, by definition contains the traffic type, is examined to determine the traffic type for traffic forwarding. See column 2, lines 60-62.)

Regarding claim 7, Isoyama discloses at least one signal comprising a connection oriented signal and wherein the label value field of that signal's transport label comprises a path identifier operable to facilitate construction of a virtual circuit over which the at least one signal will traverse (Referring to Figures 3 and 4, if the packet has connection oriented traffic the client 11a sends a connection-setup message through the network to the destination 11b to establish a connection 17, which inherently includes a virtual circuit through which the traffic will travel.

See column 3, lines 15-26.)

Regarding claims 8, 13, 21, and 29, Isoyama discloses at least one of the transport labels comprising a plurality of sub-transport labels, each sub-transport label providing an instruction regarding the associated signal's communication toward one of the destination peripheral network element (Claims 8, 13, and 21) (Referring to Figures 1 and 2, the layer-3 header of the datagram, which by definition includes source and destination address information, is examined to determine its route to server 12b. See column 3, lines 10-12.)

Regarding claim 9 and further regarding claim 13, 21, and 29 Isoyama discloses the plurality of sub-transport labels comprising a stack of sub-transport labels, and wherein the top

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sub-transport label identifies a node identification useful in determining a next hop for a connectionless signal or a path identification useful in determining a virtual circuit for a connection oriented signal (Claims 9, 13, 21, and 29) (Referring to Figures 1 and 2, the layer-3 header using the IPv6 protocol, which by definition contains the traffic identifier followed by the source address followed by the destination address information, is utilized by the server 12a to determine the routing path of the datagram. See column 3, lines 10-12.)

Regarding claims 10, 14, 22, and 30 Isoyama discloses the sub-transport label at the bottom of the stack of sub-transport labels includes an interface identifier operable to specify an interface between a network element processing the signal and the destination peripheral network element (Regarding claims 10, 14, 22, and 30) (Referring to Figures 1 and 2, the layer-3 header using the IPv6 protocol, by definition contains the traffic identifier followed by the source address followed by the destination address information, is utilized by the server 12a to determine the routing path of the datagram to its destination, which inherently includes specifying the interface through which the datagram will travel. See column 3, lines 10-12.)

Regarding claim 11, Isoyama discloses a system, which comprises:

Receiving connectionless signals and connection oriented signals at a first network element (Referring to Figure 2, the VLAN servers, 12a and 12b, inherently receives both connectionless and connection oriented traffic since they are connected to VLAN clients 11a and 11b. See column 2, lines 60-62,) each signal including a transport label having a format field identifying a signaling type associated with the signal and a label value field containing information useful in processing the signal according to its signaling type (Referring to Figure 2,

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the layer-3 header the IPv6 packet contains a priority field, by definition contains the traffic type, for establishing identity of the application. See column 2, lines 58-60.

For each signal, examining the format field of the transport label to determine the signal's signaling type/For each signal, interpreting the information in the label value field of the transport label according to the signal type (Referring to Figure 2, the priority field, by definition contains the traffic type, is examined to determine the traffic type for traffic forwarding according to the type of traffic. See column 2, lines 60-62.)

For each signal, communicating the signal to another network element using signaling procedures associated with the signal's signaling type (Referring to Figures 1 and 2, if the packet has connectionless traffic it is forwarded as a datagram to the server 12a over a path 14a. See column 3, lines 7-9.)

Regarding claim 19, Isoyama discloses a system, which comprises:

A first core network element operable to receive a signal associated with a signaling type, the signaling type comprising connectionless signaling or connection oriented signaling (Referring to Figure 2, each VLAN client, 11a and 11b, determines whether the packet has a connectionless traffic or connection oriented traffic which inherently includes receiving connectionless or connection oriented packets. See column 2, lines 60-62,) the first core network element further operable to append to the signal a transport label including an instruction regarding how to process the signal according to its signaling type (Referring to Figures 1 and 2, the network employs IPv6 protocol which by definition includes formatting the signal with a header which comprises information on determining the routing of the packet according to its traffic type. See column 2, lines 57-58 and column 3, lines 6-12.)

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A second core network element operable to receive the signal with appended transport label, to examine the transport label to determine the signaling type associated with the signal, and to process the signal according to the associated signaling type (Referring to Figures 1 and 2, the server 12a utilizes the layer-3 header to determine the routing path of the datagram to its destination, which is dependent on whether the packet is connectionless or connection-oriented. See column 3, lines 3-14 and column 3, lines 6-12.)

Regarding claim 27, Isoyama discloses a system, which comprises:

A processor operable to receive a network signal from the first peripheral network element and to determine a signaling type associated with the network signal (Referring to Figure 2, each VLAN client, 11a and 11b, determines whether the packet has a connectionless traffic or connection oriented traffic which inherently includes receiving connectionless or connection oriented packets, which inherently utilizes a processor. See column 2, lines 60-62,) the processor further operable to generate a transport label including an instruction regarding how to process the signal according to its Signaling type, and to append the transport label to the network signal to generate a formatted network signal (Referring to Figures 1 and 2, the network employs IPv6 protocol which by definition includes formatting the signal with a header that consists of information for determining the routing of a packet which inherently utilizes a processor. See column 2, lines 57-58.)

A core interface operable to receive the formatted network signal and to facilitate communication of the formatted network signal to another core network element for processing according to the signaling type identified in the transport label (Referring to Figures 1 and 2,

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server 12a forwards the datagram over path 14a to server 12b then to destination client 11b if the packet has connectionless traffic. See column 3, lines 7-14.)

Regarding claim 35, Isoyama discloses a peripheral interface operable to receive the network signal from the first peripheral network element, and to communicate network signals received from core network elements to the second peripheral network element (Referring to Figures 1 and 2, the datagram is received by client 11b, which inherently comprises an interface in order to receive packets, after being routed through VLAN 31b's server 12a and 12b from client 11a. See column 3, lines 6-14.)

#### Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Isoyama (US 6,169,739 B1) in view of Wilford (US 2001/0012295 A1).

Regarding claim 3 as explained above in the rejection statement of claim 1, Isoyama discloses all of the limitations of the claim 1 (parent claim). Isoyama further discloses *signals* comprising Internet Protocol signals (Referring to Figures 1 and 2, the protocol stacks of the ATM network comprises an IP layer (layer-3) 114, for the transmission of IP packets. See column 2, lines 51-60.) Isoyama does not disclose at least some of the plurality of signals comprise Multi-protocol label switching signals.

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Wilford teaches that it is advantageous for routers to operate as quickly as possible, so that as many packets as possible can be switched in a unit time (See page 1, section 004.)

Wilford further teaches a method for routing protocols such as MPLS in which the destination address and its length are matched using a lookup table.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the MPLS routing lookup method of Wilford in the ATM network of Isoyama. One of ordinary skill in the art would have been motivated to do so in order to create a more efficient multi-protocol server.

Regarding claim 4 as explained above in the rejection statement of claim 1, Isoyama discloses all the limitations of claim 1 (parent claim). Isoyama does not disclose at least some of the plurality of signals comprising multi-protocol label switching signals with asynchronous transfer mode, Frame Relay, or packet-over-SONET encoding.

Wilford teaches that it is advantageous for routers to operate as quickly as possible, so that as many packets as possible can be switched in a unit time (See page 1, section 004.)

Wilford further teaches a method for routing protocols such as MPLS in which the destination address and its length are matched using a lookup table.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the MPLS routing lookup method of Wilford in the ATM network of Isoyama. One of ordinary skill in the art would have been motivated to do so in order to create a more efficient multi-protocol ATM server.

Allowable Subject Matter

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9.

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claim, but would be allowable if rewritten in independent form including all of the limitations of

Claims 15-18, 23-26, and 31-34 are objected to as being dependent upon a rejected base

the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the 10.

examiner should be directed to Donald L Mills whose telephone number is 703-305-7869. The

examiner can normally be reached on 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hassan Kizou can be reached on 703-305-4744. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-305-4700.

Donald L Mills

September 11, 2003

CHAU NGUYEN SUPERVISORY PATENT EXAMINER

Jane To Nfunger

TECHNOLOGY CENTER 2600